CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.03/GVG/CSR.1/750a/SAND-Gradation/2014-15 : 31.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. G. Venkategowda,** 13th A Cross, Yelahanka New Town, Bangalore - 64.
* Name of Work	: Improvements of Cross Roads Drain in Chikkadinne Area in Attur Ward No.03 BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/155/2014-15 Dated: 29.01.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 29.01.2015
Date of Testing	: 31.01.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.76	90-100	90-100	90-100	95-100
2.36	84.02	60-95	75-100	85-100	95-100
1.18	57.64	30-70	55-90	75-100	90-100
600 Micron	37.29	15-34	35-59	60-79	80-100
300 Micron	18.55	5-20	8-30	12-40	15-50
150 Micron	8.92	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-II specific limits.

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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B.N. Prasad

8/2/15

AE-03

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T-2377

Job No.: CTCE/BBMP/W.No.03/GVG/CSR.1/750a/AGG/GR/2014-15 : 31.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. G. Venkategowda,** 13th A Cross, Yelahanka New Town, Bangalore - 64.
* Name of Work	: Improvements of Cross Roads Drain in Chikkadinne Area in Attur Ward No.03 BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/155/2014-15 Dated: 29.01.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm)
Sample Received on	: 29.01.2015
Date of Testing	: 31.01.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.16	95-100	85-100
10	39.44	25-55	0-20
4.75	6.48	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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T-2377

Job No.: CTCE/BBMP/W.No.03/GVG/CSR.1/750a/CC Solid Block/2014-15 : 04.02.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. G. Venkategowda,** 13th A Cross, Yelahanka New Town, Bangalore - 64.
* Name of the Work	: Improvements of Cross Roads Drain in Chikkadinne Area in Attur Ward No.03 BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/155/2014-15 Dated: 29.01.2015
Sample Received on	: 29.01.2015
Date of Testing	: 04.02.2015
Size of Blocks	: 400mm x 100mm x 200mm
Cross Sectional Area	: 40000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	26.35	130.3	3.26	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	24.87	131.4	3.29	
3	Block 3	25.59	129.6	3.24	
4	Block 4	25.32	130.2	3.26	
5	Block 5	24.87	132.4	3.31	
6	Block 6	26.93	131.4	3.29	
7	Block 7	25.85	129.8	3.25	
8	Block 8	26.32	132.6	3.32	

*Information is furnished by the Customer/Representative.

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T-2377

Job No.: CTCE/BBMP/W.No.03/GVG/CSR.1/750a/CC Solid Block/2014-15 : 04.02.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. G. Venkategowda,** 13th A Cross, Yelahanka New Town, Bangalore - 64.
* Name of the Work	: Improvements of Cross Roads Drain in Chikkadinne Area in Attur Ward No.03 BBMP, Bangalore.
Reference	: BBMP/AEE/YNSD/155/2014-15 Dated: 29.01.2015
Sample Received on	: 29.01.2015
Date of Testing	: 04.02.2015
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	26.52	263.4	3.29	
2	Block 2	25.48	261.5	3.27	
3	Block 3	27.32	263.8	3.30	
4	Block 4	24.58	262.5	3.28	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
5	Block 5	26.39	259.8	3.25	
6	Block 6	25.84	258.7	3.23	
7	Block 7	26.74	260.4	3.26	
8	Block 8	25.53	261.7	3.27	

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T-2377

Job No.: CTCE/BBMP/W.No.03/GVG/CSR.1/750a/CUBE/2014-15 23.02.2015

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. G. Venkategowda,** 13th A Cross, Yelahanka New Town, Bangalore - 64.
* Name of the work	: Improvements of Cross Roads Drain in Chikkadinne Area in Attur Ward No.03 BBMP, Bangalore.
* Reference	: BBMP/AEE/YNSD/155/2014-15 Dated: 29.01.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as o	: 7^{th} day
Sample Received on	: 16.02.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.02.2015	23.02.2015	8.247	236.5	10.51
2	16.02.2015	23.02.2015	8.364	247.2	10.99
3	16.02.2015	23.02.2015	8.498	258.4	11.48

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Job No : CTCE/BBMP/W.No.03/GVG/Pre slab/2014-15

19.02.2015

PRE CAST SLAB(CORE) TEST REPORT

Name of Customer	:	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Name of Agency	:	**Mr. G. Venkategowda,** 13th A Cross, Yelahanka New Town, Bangalore - 64.
Name of work	:	Improvements of Cross Roads Drain in Chikkadinne Area in Attur Ward No.03 BBMP, Bangalore.
Referece	:	BBMP/AEE/YNSD/155/2014-15 Dated: 29.01.2015
No.of Sample Tested	:	03
Date of Testing	:	19.02.2015
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.385	2579.99	1.52	0.955	25.25	12.86	13.89	13.26	16.58
2	50.00	80.00	0.399	2540.11	1.60	0.960	25.85	13.17	14.22	13.65	17.06
3	50.00	81.00	0.407	2559.05	1.62	0.965	26.60	13.55	14.63	14.12	17.65

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